

SECRET

PRIORITY

25X1

1969 MAY 23 15 17Z

P 231453Z MAY 69
FM NPIC WASHDC
TO RUEOJFA/DIA
RUCGAAA/SAC OFFUTT AFB NEB
RUWBKNA/15 AF MARCH AFB CALIF
RUEFHQA/CSAF
RUMMODA/12AD DAVIS MONTHAN AFB ARIZ
RUMMODA/100 SRW DAVIS MONTHAN AFB ARIZ
RUMMODA/349 STRAT RECON SQ DAVIS MONTHAN AFB ARIZ
RUHFBH/100 SRW/OL 20 BIEN HOA RVN
RUHHABA/PACAF HICKAM AFB HAW
RUCLMDA/WRAMA ROBBINS AFB GEO
BT

SECRET [REDACTED] CITE NPIC 6372.

DIA FOR DIAXX-2; SAC FOR DIR, DOSR, DISD, DMAC; 15 AF FOR
DOR, DMAC, DICR; CSAF FOR AFOTR, AFIGOS; 12AD FOR DO, DM;
100 SRW FOR DGO, DCM; PACAF FOR DIR, DO; WRAMA FOR WANWA, WRNWB.
REF: A. SAC 291458Z APR 69
B. DIA 012049Z MAY 69

SUBJECT: GIANT DRAGON MISSION EVALUATIONS (MISSION GT-101
AND SUMMARY OF MISSIONS 99, 100 AND 101)

1. IMAGE QUALITY: THE QUALITY OF THE MASTER CAMERA IMAGERY
RANGES FROM POOR TO GOOD AND IS SIMILAR TO THE IMAGERY OBTAINED
FROM MISSION GT-100. THE IMAGERY AT THE BEGINNING OF THE MISSION
IS OF SLIGHTLY BETTER QUALITY THAN THAT OBTAINED AT THE BEGINNING
OF MISSIONS GT-100 AND GT-99. THE QUALITY IMPROVES AS THE MISSION
PROGRESSES. THE BEST GROUND RESOLUTION IS ESTIMATED TO BE [REDACTED]

AND THE AVERAGE RESOLUTION IS APPROXIMATELY [REDACTED]
THE SLAVE CAMERA IMAGERY HAS A SEVERE OUT-OF-FOCUS APPEARANCE
AT THE BEGINNING OF THE MISSION WHICH IS SIMILAR TO THAT EXPERIENCED
ON MISSIONS GT-99 AND GT-100. THE IMAGE QUALITY IMPROVES AS THE
MISSION PROGRESSES, BUT IT DOES NOT QUITE REACH THE QUALITY AFFORDED
BY THE MASTER CAMERA. THE BEST GROUND RESOLUTION IS ESTIMATED TO BE [REDACTED]

AND THE AVERAGE IS ESTIMATED TO BE [REDACTED]
BOTH THE MASTER AND SLAVE CAMERA IMAGERY EXHIBIT AREAS OF
DOUBLE IMAGERY. THESE AREAS (A BAND 3.7 INCHES FROM BOTH THE TAKE-UP
AND SUPPLY END) ARE ALSO PRESENT ON MISSIONS GT-99 AND GT-100. THE
SEVERITY OF THE DOUBLE IMAGERY IS NOT AS GREAT AT THE END OF THE
MISSION.

CLOUD COVER AND HAZE OBSCURE LESS THAN TEN PERCENT OF THE ENTIRE
MISSION.

2. MISSION DATA:

- A. MISSION NUMBER: T101
- B. DATE: 24 APRIL 1969
- C. CAMERA NUMBERS:
 - (1) MASTER: I-11
 - (2) SLAVE: UNREADABLE
- D. FLIGHT TIMES: T/O 0930L C/ON 0259Z
- E. FILM: 3404
- F. EXPOSURE: (SLIT WIDTH) 0.075
- G. APERTURE: F 3.5
- H. FILTER: WRATTEN 21
- I. PROCESSED BY: [REDACTED]
- J. AVERAGE GAMMAS: 3.05

3. ORIGINAL NEGATIVE:

SECRET

OUT 67732

DISTRIBUTION		
CY	OFFICE	PI
/	FILE	
	CABLE SEC.	
	PP&B/RD	
	SECUR	
23	TSSG	ABSD L 25X1
	PSG/OC	
	RRO	
	REPRO	
	AID	
	IEG	
	PROD	
	SCIN	
	WEST	
	EAST	
	MES	
	PGM	
	IAS	25X1
	DIA-XX4	25X1
	SPAD	
	HA-AP	25X1
	MA	
		25X25X1

GROUP 1
Excluded from automatic
downgrading and
declassification

25X1
25X1

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A. EXPOSURE: THE MATERIAL IS PROPERLY EXPOSED IN THE BEGINNING OF THE MISSION TO SLIGHTLY OVEREXPOSED AT THE END OF THE MISSION.

B. DENSITY AND CONTRAST: GENERALLY MEDIUM THROUGHOUT THE MISSION.

C. IMAGE DEGRADATIONS: BANDING IS PRESENT ON THE TAKE-UP END OF MOST FRAMES.

D. PHYSICAL DEGRADATIONS: NO SERIOUS DEGRADATIONS NOTED.

E. AUXILIARY DATA: THE SLAVE CAMERA SERIAL NUMBER IS BLOOMED AND UNREADABLE.

A. SUMMARY OF MISSIONS GT-99, 100 AND 101:

A. IN GENERAL, THE OVERALL IMAGE QUALITY PROVIDED BY THESE THREE MISSIONS IS SLIGHTLY BETTER THAN THAT OBTAINED ON MISSIONS GT-90, 91 AND 92; HOWEVER, THE OUT-OF-FOCUS APPEARANCE, OF BOTH CAMERA RECORDS, AT THE BEGINNING OF ALL THREE MISSIONS IS STILL A DEGRADING FACTOR. IT IS REALIZED THAT MANY FACTORS ENTER INTO MISSION PLANNING AND AN ADDITIONAL TIME INCREASE BETWEEN TAKE-OFF AND CAMERA-ON MAY NOT BE FEASIBLE; HOWEVER, THIS SUGGESTION SEEMS TO BE THE ONLY ALTERNATIVE TO ALLEVIATE THIS FOCUS PROBLEM.

B. THE DOUBLE IMAGERY APPARENT ON BOTH CAMERA RECORDS OF ALL THREE MISSIONS IS MORE SEVERE AND THE OCCURRENCES ARE MORE NUMEROUS THAN REPORTED ON MISSIONS GT-90, 91 AND 92. THIS PROBLEM AND POSSIBLE CAUSES WERE DISCUSSED IN THE EVALUATION SUMMARY OF MISSIONS GT-90, 91 AND 92. NO ADDITIONAL INFORMATION CAN BE PROVIDED CONCERNING THIS ANOMALY.

C. OF THE THREE MISSION, GT-100 PROVIDED THE BEST RESOLUTION [REDACTED] ALTHOUGH THIS IS NOT EQUIVALENT TO THE BEST RESOLUTION THIS SYSTEM CAN PROVIDE, IT IS CONSIDERED GOOD FOR AN OPERATIONAL MISSION. THIS [REDACTED] ESTIMATE IS INDICATIVE OF ONLY A SMALL PORTION OF THE MISSION; HOWEVER, IT DOES INDICATE AN OPERATIONAL SYSTEM CAPABILITY.

GP-1

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END OF MESSAGE

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